Specifications

System:

Freq. Range (-10 dB):

55Hz-19kHz

Freq. Response (±3 dB):

75Hz-18kHz

Horz. Coverage Angle (-6 dB):

80° nominal

Vert. Coverage Angle (-6 dB):

60° nominal

Directivity Factor Q (DI):

10.5 (10.2), averaged 1kHz-10kHz

System Sensitivity:

99 dB, 1W@1m

Rated Maximum SPL:

125 dB @ 1 m (3.3ft) peak

HF Protection:

Dynamic

Transducers:

Low Frequency:

380 mm (15") diameter woofer

High Frequency:

51 mm (2") exit compression driver, horn loaded

Preamp and Processor:

Input Sensitivity:

Mic In: 8mV Line In: 125mV

Input Impedance:

Mic In: 650Ω unbalanced

1.3kΩ balanced

Line In: $10k\Omega$ unbalanced

19k Ω balanced

Crossover Frequency and Slope:

1.8kHz; 24 dB/octave

Time Alignment:

Analog, 0.3 ms HF delay

Speaker Protection:

Thermal, over-excursion

Music Equalization:

+4.3 dB @ 65Hz

+4.0 dB @ 12kHz

Voice Equalization:

+4.0 dB @ 3kHz +4.0 dB @ 6kHz

Indicators:

Power ON, Limiter

Amplifiers:

LF Amplifier Power:

300 watts RMS

HF Amplifier Power:

50 watts RMS

Distortion:

< 0.1% THD at rated power

Amp Protection:

Thermal, limiter, short circuit

Power Supply:

115/230 VAC, 2A, 50/60 Hz

Physical:

Enclosure:

Asymmetrical trapezoidal, reinforced polypropylene

Mounting:

Lockable 1-3/8" (35mm) stand mount

Rigging Inserts:

6 points, accepts M10 threaded hardware

Input/Output Connectors:

2 XLR balanced

Dimensions HxWxD:

29.1" x 17.9" x 14.8"

(740 mm x 454 mm x 375 mm)

Net Weight:

77.2 lb (35.0 kg)

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Part No. 910-165-20 Rev. A 2/00

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The ART400A is a full-range two-way

combines high power and wide bandwidth in

a light-weight enclosure for fixed-installation

systems. The 15" low-frequency transducer, in

combination with a 2" exit compression driver

directivity polynomial horn, form an extremely

coupled to an integral 80° x 60° constant

powerful package for any small to medium-

It features a balanced XLR input with a

Mic/Line switch and a paralleled balanced

XLR output for cascading multiple speakers.

Rear panel controls also include Music and

Voice equalization switches, a rotary volume

300W for the LF driver and 50W for the HF driver. The enclosure is constructed of high-

strength polypropylene with two internal

Before connecting and using the

WARNING! This equipment has been

designed to be installed by qualified

carefully and keep it for future reference.

The two built-in power amplifiers provide

16mm thick multilayer wood panels. It has six

M10 threaded inserts, and an integral locking

1-3/8" socket in the bottom for mounting on a

equipment, please read this Quick-Start Guide

professionals only! There are many factors to

be considered when installing professional

mechanical and electrical considerations, as

well as acoustic coverage and performance.

Mackie Industrial strongly recommends that

professional sound installer or contractor.

sound reinforcement systems, including

this equipment be installed only by a

control, and an input limiter.

standard speaker stand.

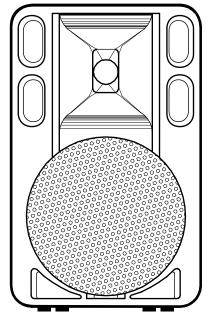
Safety First!

sized sound reinforcement application.

professional active speaker system that

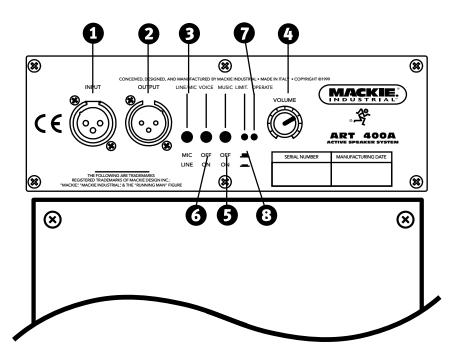
Active Speaker System

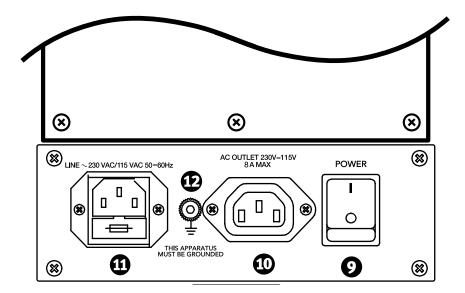
Quick-Start Guide



- 1. Never install, connect, or disconnect the unit with the power supply on.
- 2. Before powering up the speaker, make sure the voltage select switch corresponds to the AC Voltage supply.
- 3. Make sure the safety ground on the power cord is properly grounded.
- To prevent the risk of electric shock, never open the unit. There are no user serviceable parts inside.
- To ensure normal cooling of the amplifier, make sure the unit is wellventilated. Avoid exposure to direct sunlight or proximity to any heat source, dust, or dampness.

CAUTION: To avoid the risk of electric shock, never allow this equipment to be exposed to rain or dampness.





Rear Panel Features and Controls

- 1. INPUT is a balanced XLR input jack that accepts mic-level or line-level signals.
- OUTPUT is a balanced XLR output jack in parallel with the INPUT jack, allowing the signal to "loop through" for daisy-chaining speakers together.
- 3. LINE/MIC switch for mic-level or line-level signals at the INPUT.
- 4. VOLUME control adjusts the input-stage gain.
- 5. MUSIC equalization switch ON provides a low-frequency and high-frequency boost.
- 6. VOICE equalization switch ON provides a gentle boost at 3kHz and 6kHz.
- 7. OPERATE indicator illuminates when the POWER switch is turned on.
- 8. LIMITER indicator illuminates when the limiting protection circuits are activated.
- POWER switch turns the AC power on and off.
- AC OUTLET for connecting AC power to an additional Mackie Industrial active speaker system.
- 11. IEC AC Socket. Connect the detachable power cord to the socket. The protection fuse is also contained in the AC socket.

CAUTION: Replace fuse only with the same type as indicated on the rear panel.

12. Grounding Terminal provides an additional safety grounding point.

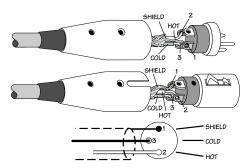
Connections

The XLR connectors use the following AES standard:

Pin 1 = Ground (Shield)

Pin 2 = Hot (+)

Pin 3 = Cold(-)



Installation

A 1-3/8" (35mm) socket is provided in the bottom of the cabinet for mounting the loudspeaker on a speaker stand.

The ART400A can be suspended with approved rigging hardware. Always use at least two M10 threaded inserts located on opposite sides of the enclosure. The speaker must be positioned so that the weight of the enclosure is equally distributed over the two inserts.

WARNING: Never attempt to suspend the ART Series loudspeakers by their handles. Consult a professional rigger or structural engineer prior to suspending loudspeakers from a structure not intended for that use. Always know the working load limit of the structure supporting the loudspeaker array. Always make sure that the rigging hardware minimum rating is at least five times the actual load.



